

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-20 (Cancelled)

1           21. (New) A system for operating wired and wireless phone services interconnectively,  
2           the system comprising:

3           a private base station controller (pBSC) that is connected with a public switched  
4           telephone network (PSTN) and a private base station transceiver system (pBTS), and provides a  
5           mobile communication service to a mobile communication terminal; and

6           a group exchange that is connected with the PSTN, and assigns virtual wired phone  
7           numbers to a plurality of mobile communication terminals existing in a mobile zone as a  
8           management region of the pBTS, and provides a public wired phone service to the mobile  
9           communication terminals using the virtual wired phone numbers, and provides a wired phone  
10          service to a wired terminal existing outside the mobile zone.

1           22. (New) The system according to claim 21, wherein the group exchange calls the  
2           mobile communication terminal corresponding to the virtual wired phone number when  
3           receiving an incoming call containing the virtual wired phone number.

1           23. (New) The system according to claim 21, wherein the group exchange comprises a  
2           database for storing, for each arbitrary wired phone number, information indicating whether or  
3           not each of the wired phone numbers is a virtual phone number and information about whether or  
4           not a multiple terminating service is registered.

1           24. (New) The system according to claim 23, wherein the group exchange  
2           simultaneously calls the wired terminal corresponding to the wired phone number and the mobile  
3           communication terminal when the wired phone number registered with the multiple terminating  
4           service is called.

1           25. (New) The system according to claim 21, wherein the pBSC comprises a database  
2           for storing the virtual wired phone number assigned to each of the mobile communication  
3           terminals and a mobile identifier number (MIN) of the mobile communication terminal  
4           corresponding to the virtual wired phone number.

1           26. (New) The system according to claim 21, wherein the group exchange is connected  
2           to the PSTN through No. 7 signaling.

1           27. (New) The system according to claim 21, wherein, when receiving a request for an  
2 outgoing service from an internal mobile communication terminal, the group exchange changes a  
3 caller identification (CID) into the virtual wired phone number assigned to the internal mobile  
4 communication terminal, and calls a called terminal via the PSTN.

1           28. (New) The system according to claim 21, wherein, when receiving a request for an  
2 outgoing service from an internal mobile communication terminal, the pBSC checks a service  
3 type identifier defining which one of a private network service and a public network service the  
4 internal mobile communication terminal requests.

1           29. (New) The system according to claim 28, wherein the pBSC relays an outgoing call  
2 to the group exchange when the internal mobile communication terminal requests the private  
3 network service, and relays the outgoing call to the PLMN when the internal mobile  
4 communication terminal requests the public network service.

1           30. (New) A method for operating wired and wireless phone services interconnectively,  
2 the method comprising the steps of:

3           assigning, by a group exchange, virtual wired phone numbers to a plurality of mobile  
4 communication terminals existing in a mobile zone as a management region of a private base  
5 station transceiver system (pBTS);

6 providing, by the group exchange, a wired phone service to a wired terminal existing  
7 outside the mobile zone; and

8 providing, by the group exchange, a public wired phone service to the mobile  
9 communication terminals by linking the virtual wired phone numbers with mobile identifier  
10 numbers (MINs) of the mobile communication terminals.

1 31. (New) The method according to claim 30, wherein in the step of providing the public  
2 wired phone service, when the group exchange receives an incoming call containing the virtual  
3 wired phone number through a public switched telephone network (PSTN), the group exchange  
4 calls the mobile communication terminal corresponding to the virtual wired phone number.

1 32. (New) The method according to claim 30, further comprising the step of  
2 simultaneously calling, by the group exchange, the wired terminal corresponding to the wired  
3 phone number and the mobile communication terminal when the wired phone number registered  
4 with the multiple terminating service is called.

1 33. (New) The method according to claim 32, further comprising the step of rerouting,  
2 by the group exchange, an incoming call to a public switched telephone network (PSTN) or a  
3 public land mobile network (PLMN) when the called wired terminal and the mobile  
4 communication terminal make no response.

1           34. (New) The method according to claim 30, further comprising the step of, when the  
2           group exchange receives a request for an outgoing service from an internal mobile  
3           communication terminal, changing, by the group exchange, a caller identification (CID) into the  
4           virtual wired phone number assigned to the internal mobile communication terminal, and calling  
5           a called terminal via a public switched telephone network (PSTN).

1           35. (New) The method according to claim 30, further comprising the step of, when a  
2           private base station controller (pBSC) receives a request for an internal service from an outgoing  
3           mobile communication terminal, checking, by the pBSC, a service type identifier defining which  
4           one of a private network service and a public network service the internal mobile communication  
5           terminal requests.

1           36. (New) The method according to claim 35, further comprising the steps of:  
2           relaying, by the pBSC, an outgoing call to the group exchange when the internal mobile  
3           communication terminal requests the private network service; and  
4           relaying, by the pBSC, the outgoing call to a public land mobile network (PLMN) when  
5           the internal mobile communication terminal requests the public network service.